

U.S. Patent Application Serial No. 10/583,007
Response to OA of March 12, 2010

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): In a method of producing steel using a steel-making vessel, where lime is used as a flux material that is blown, from above, into a steel-making bath along with an oxygen stream, the improvement comprising:

providing a flux material composition of ~~calcium-oxide~~ having a particle size of less than 250 mesh, the composition being a mixture of conditioned high calcium quicklime and conditioned dolomite quicklime, each conditioned by separately pulverizing the same to said particle size and coating with a flow aid material, which contains a the flow aid material being that is an organic siloxane, in an amount of less than 0.5 percent by weight of the composition on-calcium-oxide, and injecting the flux material composition through a lance along with oxygen into the steel-making bath contained in the vessel.

Claim 2 (Cancel)

Claim 3 (Cancel)

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Claim 4 (Original): The method according to Claim 1 wherein the flow aid material is polydimethylsiloxane.

Claim 5 (Original): The method according to Claim 1 wherein the flow aid material is polymethylhydrosiloxane.